



Bangladesh Power Development Board
INTEGRATED MANAGEMENT SYSTEM
(BASED ON ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018
STANDARDS)

WATER CONSUMPTION PROCEDURE



INTEGRATED MANAGEMENT SYSTEM

Document No.:
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1. Purpose

For monitoring and tracking of water consumes in the following areas at BPDB plant:

- i. Boiler
- ii. Balance of plant

2. Scope

This SOP applies for water used in the areas stated above and outlines the procedure for the recording, tracking and reconciliation of the water usage.

3. Terms and Definitions

None

Abbreviations

BPDB – Bangladesh Power Development Board

SOP – Standard Operating Procedure

4. Roles and Responsibilities

Operation Manager: Ensure that this procedure is followed in order to accurately maintain and track inventories

Shift Manager: Ensure that the task(s) to be carried out by his Operation Technician is in the manner described herein

Operation Engineers (Power Block / Balance of Plant): Responsible for carrying out the task(s) according to procedure described herein.

Day Support Operation Engineer(s): Responsible for carrying out the task according to procedure described herein.

5. Procedure

5.1 Data acquisition:

- I. As per of the daily routine activity, the operation Engineer (Balance of plant) will collect the record the totalizer reading.
- II. At the end of each day, the operation Engineer (CCR) will run the PHD for e-tracking (Optional).
- III. Total water consumption (Demin, Boiler feed water, Raw water make up to cooling water, portable water) is captured in PHD. (Optional).

5.2 Reconciliation of water consumption

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- I. On a daily basis, the receptive engineer of the plant will consolidate and check the water consumption value in PHD (Optional) against the individual unit consumption.
- II. Various usage of water as follows:
 - Fire water make up
 - Cooling water make up
 - Raw water to demin
- III. Boiler feed water consumption is balanced against its usage.
- IV. Any discrepancies will be highlighted to plant manager.

6. References

ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Standards

7. Appendixes

None

8. Revision History

SI No.	Revision Number	Section	Change Made	Date of Revision

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